

WHAT IS CLAIMED IS:

1. A system comprising a server and a plurality of networks
connected to said server,
wherein each said network includes
a mobile terminal that receives data and outputs the received data,
5 a communication device that sends data received from said server to
said mobile terminal wirelessly, and
a detection device that detects any said mobile terminal present
within a range communicable with said communication device, said mobile
terminal moving between said plurality of networks, and said mobile
10 terminal having a primary assigned network set as its home network,
and wherein said server includes
a communication circuit that communicates with the communication
device and the detection device included in each said network,
a storage circuit that is connected to said communication circuit and
15 that stores a management table including, for each said mobile terminal,
information specifying the network in which said mobile terminal is
currently located that is determined based on information received from said
detection device and information specifying said home network, and
a control circuit that is connected to said communication circuit and
20 said storage circuit and that receives data and information indicating the
mobile terminal as a destination of the data, and controls, based on the
received information indicating the mobile terminal as the destination of the
data and the information stored in said management table, such that said
communication circuit sends said received data to said mobile terminal as
25 the destination thereof.

2. The network system according to claim 1,
wherein said detection device includes
a first transmission circuit that transmits inquiry information to
said mobile terminal to inquire whether it is within the range communicable
5 with said communication device,

a receiving circuit that receives in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and

10 a second transmission circuit that is connected to said receiving circuit and that transmits to said server, first identification information specifying said mobile terminal that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

15 wherein said storage circuit includes a circuit that stores a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

20 wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information, and wherein said control circuit includes

a circuit that reads from said management table the second identification information corresponding to the first identification information received with said data,

25 a circuit that compares the read second identification information and the information specifying said home network, and

a circuit that controls, when the read second identification information and the information specifying said home network differs from each other, such that said communication circuit sends said received data to
30 the communication device in the network identified by the read second identification information.

3. The network system according to claim 1, wherein said server further includes a connect circuit that connects to another network, and
said server receives said data and the information indicating the mobile terminal as the destination of the data from a device connected to
5 said another network.

4. The network system according to claim 3, wherein said another network is the Internet, and
said connect circuit includes a circuit that connects to said Internet via a public network.

5. A system comprising a server and a plurality of networks connected to said server,
wherein each said network includes
a mobile terminal that receives data and outputs the received data,
5 a communication device that sends data received from said server to said mobile terminal wirelessly, and
a detection device that detects any said mobile terminal present within a range communicable with said communication device, said mobile terminal moving between said plurality of networks, and said mobile
10 terminal having a primary assigned network set as its home network, and wherein said server includes
communication means for communicating with the communication device and the detection device included in each said network,
storage means, connected to said communication means, for storing
15 a management table including, for each said mobile terminal, information specifying the network in which said mobile terminal is currently located that is determined based on information received from said detection device and information specifying said home network, and
control means, connected to said communication means and said
20 storage means, for receiving data and information indicating the mobile terminal as a destination of the data, and controlling, based on the received information indicating the mobile terminal as the destination of the data and the information stored in said management table, such that said communication means sends said received data to said mobile terminal as
25 the destination thereof.

6. The network system according to claim 5,
wherein said detection device includes

first transmission means for transmitting inquiry information to said mobile terminal to inquire whether it is within the range communicable with said communication device,

receiving means for receiving in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and

second transmission means, connected to said receiving means, for transmitting to said server, first identification information specifying said mobile terminal that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

wherein said storage means includes means for storing a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information,

and wherein said control means includes means for reading from said management table the second identification information corresponding to the first identification information received with said data,

means for comparing the read second identification information and the information specifying said home network, and

means for controlling, when the read second identification information and the information specifying said home network differs from each other, such that said communication means sends said received data to the communication device in the network identified by the read second identification information.

7. The network system according to claim 5, wherein said server further includes connect means for connecting to another network, and said server receives said data and the information indicating the

5 mobile terminal as the destination of the data from a device connected to
said another network.

8. The network system according to claim 7, wherein said another
network is the Internet, and
said connect means includes means for connecting to said Internet
via a public network.

9. A server for use in a system including the server and a plurality
of networks connected to said server,
wherein each said network includes a mobile terminal that receives
data and outputs the received data, a communication device that sends data
received from said server to said mobile terminal wirelessly, and a detection
device that detects any said mobile terminal present within a range
communicable with said communication device, said mobile terminal
moving between said plurality of networks, and said mobile terminal having
a primary assigned network set as its home network,
said server comprising:
a communication circuit that communicates with the communication
device and the detection device included in each said network;
a storage circuit that is connected to said communication circuit and
that stores a management table including, for each said mobile terminal,
information specifying the network in which said mobile terminal is
currently located that is determined based on information received from said
detection device and information specifying said home network; and
a control circuit that is connected to said communication circuit and
said storage circuit and that receives data and information indicating the
mobile terminal as a destination of the data, and controls, based on the
received information indicating the mobile terminal as the destination of the
data and the information stored in said management table, such that said
communication circuit sends said received data to said mobile terminal as
the destination thereof.

10. The server according to claim 9,

wherein said detection device includes a first transmission circuit that transmits inquiry information to said mobile terminal to inquire whether it is within the range communicable with said communication device, a receiving circuit that receives in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and a second transmission circuit that is connected to said receiving circuit and that transmits to said server, first identification information specifying said mobile terminal that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

wherein said storage circuit includes a circuit that stores a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information, and wherein said control circuit includes

a circuit that reads from said management table the second identification information corresponding to the first identification information received with said data,

a circuit that compares the read second identification information and the information specifying said home network, and

a circuit that controls, when the read second identification information and the information specifying said home network differs from each other, such that said communication circuit sends said received data to the communication device in the network identified by the read second identification information.

11. The server according to claim 9, further comprising a connect circuit that connects to another network, wherein

said server receives said data and the information indicating the

mobile terminal as the destination of the data from a device connected to
5 said another network.

12. The server according to claim 11, wherein said another network
is the Internet, and

said connect circuit includes a circuit that connects to said Internet
via a public network.

13. A server for use in a system including the server and a plurality
of networks connected to said server,

wherein each said network includes a mobile terminal that receives
data and outputs the received data, a communication device that sends data
5 received from said server to said mobile terminal wirelessly, and a detection
device that detects any said mobile terminal present within a range
communicable with said communication device, said mobile terminal
moving between said plurality of networks, and said mobile terminal having
a primary assigned network set as its home network,

10 said server comprising:

communication means for communicating with the communication
device and the detection device included in each said network;

storage means, connected to said communication means, for storing
a management table including, for each said mobile terminal, information
15 specifying the network in which said mobile terminal is currently located
that is determined based on information received from said detection device
and information specifying said home network; and

control means, connected to said communication means and said
storage means, for receiving data and information indicating the mobile
20 terminal as a destination of the data, and controlling, based on the received
information indicating the mobile terminal as the destination of the data
and the information stored in said management table, such that said
communication means sends said received data to said mobile terminal as
the destination thereof.

14. The server according to claim 13,
wherein said detection device includes first transmission means for
transmitting inquiry information to said mobile terminal to inquire whether
it is within the range communicable with said communication device,
5 receiving means for receiving in-zone information that is transmitted in
response to said inquiry information by said mobile terminal that is present
within the range communicable with said communication device, and second
transmission means, connected to said receiving means, for transmitting to
said server, first identification information specifying said mobile terminal
10 that transmitted said in-zone information and second identification
information specifying the network in which said detection device is
included,

wherein said storage means includes means for storing a
management table including, for each mobile terminal identified by the first
15 identification information, the second identification information received
and the information specifying said home network,

wherein said information indicating the mobile terminal as the
destination of the data is represented by the first identification information,
and wherein said control means includes

20 means for reading from said management table the second
identification information corresponding to the first identification
information received with said data,

means for comparing the read second identification information and
the information specifying said home network, and

25 means for controlling, when the read second identification
information and the information specifying said home network differs from
each other, such that said communication means sends said received data to
the communication device in the network identified by the read second
identification information.

15. The server according to claim 13, further comprising connect
means for connecting to another network, and
said server receives said data and the information indicating the

mobile terminal as the destination of the data from a device connected to
5 said another network.

16. The server according to claim 15, wherein said another network
is the Internet, and

said connect means includes means for connecting to said Internet
via a public network.

17. A communication method of a server in a system including the
server and a plurality of networks connected to said server,

wherein each said network includes a mobile terminal that receives
data and outputs the received data, a communication device that sends data
5 received from said server to said mobile terminal wirelessly, and a detection
device that detects any said mobile terminal present within a range
communicable with said communication device, said mobile terminal
moving between said plurality of networks, and said mobile terminal having
a primary assigned network set as its home network,

10 said communication method comprising the steps of:

storing a management table including, for each said mobile terminal,
information specifying the network in which said mobile terminal is
currently located that is determined based on information received from said
detection device and information specifying said home network; and

15 receiving data and information indicating the mobile terminal as a
destination of the data, and, based on the received information indicating
the mobile terminal as the destination of the data and the information
stored in said management table, sending said received data to said mobile
terminal as the destination thereof.

18. The communication method according to claim 17,

wherein said detection device includes a first transmission circuit
that transmits inquiry information to said mobile terminal to inquire
whether it is within the range communicable with said communication
5 device, a receiving circuit that receives in-zone information that is

transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and a second transmission circuit that is connected to said receiving circuit and that transmits to said server, first identification information specifying said mobile terminal that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

wherein said step of storing the management table includes the step of storing a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information,

and wherein said step of sending said received data to said mobile terminal as the destination thereof includes the steps of reading from said management table the second identification information corresponding to the first identification information received with said data,

comparing the read second identification information and the information specifying said home network, and

when the read second identification information and the information specifying said home network differs from each other, sending said received data to the communication device in the network identified by the read second identification information.

19. The communication method according to claim 17, wherein said server is connected to another network, and

said server receives said data and the information indicating the mobile terminal as the destination of the data from a device connected to said another network.

20. The communication method according to claim 19, wherein said another network is the Internet, and

said server is connected to said Internet via a public network.

21. A computer readable recording medium for use in recording a program for implementing a communication method of a server in a system including the server and a plurality of networks connected to said server,

5 wherein each said network includes a mobile terminal that receives data and outputs the received data, a communication device that sends data received from said server to said mobile terminal wirelessly, and a detection device that detects any said mobile terminal present within a range communicable with said communication device, said mobile terminal moving between said plurality of networks, and said mobile terminal having
10 a primary assigned network set as its home network,

wherein said communication method comprises the steps of:

storing a management table including, for each said mobile terminal, information specifying the network in which said mobile terminal is currently located that is determined based on information received from said
15 detection device and information specifying said home network; and

receiving data and information indicating the mobile terminal as a destination of the data, and, based on the received information indicating the mobile terminal as the destination of the data and the information stored in said management table, sending said received data to said mobile
20 terminal as the destination thereof.

22. The recording medium according to claim 21,

wherein said detection device includes a first transmission circuit that transmits inquiry information to said mobile terminal to inquire whether it is within the range communicable with said communication
5 device, a receiving circuit that receives in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and a second transmission circuit that is connected to said receiving circuit and that transmits to said server, first identification information
10 specifying said mobile terminal that transmitted said in-zone information

and second identification information specifying the network in which said detection device is included,

15 wherein said step of storing the management table includes the step of storing a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

20 wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information, and wherein said step of sending said received data to said mobile terminal as the destination thereof includes the steps of

reading from said management table the second identification information corresponding to the first identification information received with said data,

25 comparing the read second identification information and the information specifying said home network, and

when the read second identification information and the information specifying said home network differs from each other, sending said received data to the communication device in the network identified by the read second identification information.

23. The recording medium according to claim 21, wherein said server is connected to another network, and

5 said server receives said data and the information indicating the mobile terminal as the destination of the data from a device connected to said another network.

24. The recording medium according to claim 23, wherein said another network is the Internet, and

said server is connected to said Internet via a public network.